

Roger H Varney

List of Publications by Year in descending order

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60
papers

760
citations

567281

15
h-index

642732

23
g-index

67
all docs

67
docs citations

67
times ranked

908
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Observations of a Polar Cap Sporadic E Layer by Twin Incoherent Scatter Radars at Resolute. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	2
2	Effects of Substorms on High-Latitude Upper Thermospheric Winds. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028193.	2.4	5
3	Radar Observations of Flows Leading to Longitudinal Expansion of Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028148.	2.4	6
4	Thermospheric Impact on the Magnetosphere Through Ionospheric Outflow. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028656.	2.4	4
5	Radar Observations of Flows Leading to Substorm Onset Over Alaska. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028147.	2.4	8
6	An Explanation for Arecibo Plasma Line Power Striations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028734.	2.4	3
7	Cusp Dynamics and Polar Cap Patch Formation Associated With a Small IMF Southward Turning. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029090.	2.4	4
8	Salient Midlatitude Ionosphere-Thermosphere Disturbances Associated With SAPS During a Minor but Geoeffective Storm at Deep Solar Minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029509.	2.4	24
9	Ionospheric Scintillation Data Inversion to Characterize the Structures Associated With a Series of Polar Cap Patches. <i>Radio Science</i> , 2021, 56, e2020RS007235.	1.6	2
10	Ion Heating in the Polar Cap Under Northwards IMF Bz. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029155.	2.4	0
11	An Investigation of Auroral E Region Energy Exchange Using Poker Flat Incoherent Scatter Radar Observations During Fall Equinox Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029371.	2.4	4
12	Direct Connection Between Auroral Oval Streamers/Flow Channels and Equatorward Traveling Ionospheric Disturbances. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	4
13	Topside measurements at Jicamarca during the 2019-2020 deep solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029695.	2.4	4
14	Examining the Auroral Ionosphere in Three Dimensions Using Reconstructed 2D Maps of Auroral Data to Drive the 3D GEMINI Model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029749.	2.4	3
15	Seasonal and Solar Cycle Dependence of Energy Transfer Rates in the Auroral E-Region. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029719.	2.4	1
16	Auroral heating of plasma patches due to high-latitude reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029657.	2.4	0
17	A New Framework to Incorporate High-Latitude Input for Mesoscale Electrodynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027562.	2.4	7
18	Statistical Study of Ion Upflow and Downflow Observed by PFISR. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028179.	2.4	4

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19	Auroral ionospheric plasma flow extraction using subsonic retarding potential analyzers. Review of Scientific Instruments, 2020, 91, 094503.	1.3	6
20	Ionospheric Modulation by Storm Time Pc5 ULF Pulsations and the Structure Detected by PFISR&THESIS Conjunction. Geophysical Research Letters, 2020, 47, e2020GL089060.	4.0	11
21	Analysis of Plasma Irregularities on a Range of Scintillation&Scales Using the Resolute Bay Incoherent Scatter Radars. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027112.	2.4	9
22	Extreme Magnetosphere&Ionosphere&Thermosphere Responses to the 5 April 2010 Supersubstorm. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027654.	2.4	14
23	HIWIND Observation of Summer Season Polar Cap Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2019, 124, 9270-9277.	2.4	6
24	A Bottomside Parameterization for the Empirical Canadian High Arctic Ionospheric Model. Radio Science, 2019, 54, 397-414.	1.6	26
25	Two&Ddimensional Maps of In Situ Ionospheric Plasma Flow Data Near Auroral Arcs Using Auroral Imagery. Journal of Geophysical Research: Space Physics, 2019, 124, 3036-3056.	2.4	12
26	Topside Electron Density Representations for Middle and High Latitudes: A Topside Parameterization for E&CHAIM Based On the NeQuick. Journal of Geophysical Research: Space Physics, 2018, 123, 1603-1617.	2.4	40
27	Examining the use of the NeQuick bottomside and topside parameterizations at high latitudes. Advances in Space Research, 2018, 61, 287-294.	2.6	11
28	On the Relation Between Soft Electron Precipitations in the Cusp Region and Solar Wind Coupling Functions. Journal of Geophysical Research: Space Physics, 2018, 123, 211-226.	2.4	1
29	Field&Aligned GPS Scintillation: Multisensor Data Fusion. Journal of Geophysical Research: Space Physics, 2018, 123, 974-992.	2.4	16
30	Observations of Reduced Turbulence and Wave Activity in the Arctic Middle Atmosphere Following the January 2015 Sudden Stratospheric Warming. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13259-13276.	3.3	11
31	Large&Scale Comparison of Polar Cap Ionospheric Velocities Measured by RISR&C, RISR&N, and SuperDARN. Radio Science, 2018, 53, 624-639.	1.6	6
32	Mesoscale <i>F</i> Region Neutral Winds Associated With Quasi&Steady and Transient Nightside Auroral Forms. Journal of Geophysical Research: Space Physics, 2018, 123, 7968-7984.	2.4	15
33	Ionospheric Electron Heating Associated With Pulsating Auroras: Joint Optical and PFISR Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 4430-4456.	2.4	8
34	Statistical Characteristics of Polar Cap Patches Observed by RISR&C. Journal of Geophysical Research: Space Physics, 2018, 123, 6981-6995.	2.4	17
35	Parametric study of density cavities caused by ion outflow in the topside ionosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 156, 37-49.	1.6	3
36	Effects of sudden commencement on the ionosphere: PFISR observations and global MHD simulation. Geophysical Research Letters, 2017, 44, 3047-3058.	4.0	17

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37	First simultaneous multistation observations of the polar cap thermospheric winds. Journal of Geophysical Research: Space Physics, 2017, 122, 907-915.	2.4	13
38	Strong ambipolar-driven ion upflow within the cleft ion fountain during low geomagnetic activity. Journal of Geophysical Research: Space Physics, 2016, 121, 6950-6969.	2.4	8
39	Influence of ion outflow in coupled geospace simulations: 2. Sawtooth oscillations driven by physics-based ion outflow. Journal of Geophysical Research: Space Physics, 2016, 121, 9688-9700.	2.4	14
40	Influence of ion outflow in coupled geospace simulations: 1. Physics-based ion outflow model development and sensitivity study. Journal of Geophysical Research: Space Physics, 2016, 121, 9671-9687.	2.4	24
41	On the consistency of the SuperDARN radar velocity and $\langle b \rangle_E$ — $\langle b \rangle_B$ plasma drift. Radio Science, 2016, 51, 1792-1805.	1.6	7
42	AMISR-14: Observations of equatorial spread F . Geophysical Research Letters, 2015, 42, 5100-5108.	4.0	11
43	Pathways of F region thermospheric mass density enhancement via soft electron precipitation. Journal of Geophysical Research: Space Physics, 2015, 120, 5824-5831.	2.4	16
44	Concurrent observations at the magnetic equator of small-scale irregularities and large-scale depletions associated with equatorial spread F . Journal of Geophysical Research: Space Physics, 2015, 120, 10,883.	2.4	7
45	Ion upflow dependence on ionospheric density and solar photoionization. Journal of Geophysical Research: Space Physics, 2015, 120, 10039-10052.	2.4	16
46	Modeling the interaction between convection and nonthermal ion outflows. Journal of Geophysical Research: Space Physics, 2015, 120, 2353-2362.	2.4	14
47	Topside equatorial ionospheric density, temperature, and composition under equinox, low solar flux conditions. Journal of Geophysical Research: Space Physics, 2015, 120, 3899-3912.	2.4	16
48	Heating of the sunlit polar cap ionosphere by reflected photoelectrons. Journal of Geophysical Research: Space Physics, 2014, 119, 8660-8684.	2.4	24
49	Heater-induced ionization inferred from spectrometric airglow measurements. Journal of Geophysical Research: Space Physics, 2014, 119, 2038-2045.	2.4	8
50	Sources of variability in equatorial topside ionospheric and plasmaspheric temperatures. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 103, 83-93.	1.6	5
51	Estimating the electron energy distribution during ionospheric modification from spectrographic airglow measurements. Journal of Geophysical Research, 2012, 117, .	3.3	8
52	Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. IEEE Transactions on Plasma Science, 2012, 40, 1267-1286.	1.3	58
53	SAMI2-PE: A model of the ionosphere including multistream interhemispheric photoelectron transport. Journal of Geophysical Research, 2012, 117, .	3.3	29
54	Sensitivity studies of equatorial topside electron and ion temperatures. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	9

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55	The electron density dependence of polar mesospheric summer echoes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2153-2165.	1.6	35
56	Radar, lidar, and optical observations in the polar summer mesosphere shortly after a space shuttle launch. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
57	Influence of an inertia-gravity wave on mesospheric dynamics: A case study with the Poker Flat Incoherent Scatter Radar. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	46
58	Spectral observations of polar mesospheric summer echoes at 33cm (450MHz) with the Poker Flat Incoherent Scatter Radar. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 662-674.	1.6	21
59	Observations of polar mesospheric summer echoes using PFISR during the summer of 2007. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 470-476.	1.6	8
60	Observations of electric fields associated with internal gravity waves. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	31